

State of West Virginia
Department of Environmental Protection - Office of Oil and Gas
Well Operator's Report of Well Work

API 47 - 095 - 02274 County Tyler District Ellsworth
Quad Porters Falls Pad Name _____ Field/Pool Name _____
Farm name Starkey, John W. & Leah D. Well Number Mendenhall 1V North
Operator (as registered with the OOG) Alliance Petroleum Corporation
Address 4150 Belden Village Ave., NW Suite 410 City Canton State Ohio Zip 44718-2553

As Drilled location NAD 83/UTM Attach an as-drilled plat, profile view, and deviation survey
Top hole Northing _____ Easting _____
Landing Point of Curve Northing _____ Easting _____
Bottom Hole Northing _____ Easting _____

Elevation (ft) 1068 GL Type of Well New Existing Type of Report Interim Final
Permit Type Deviated Horizontal Horizontal 6A Vertical Depth Type Deep Shallow
Type of Operation Convert Deepen Drill Plug Back Redrilling Rework Stimulate
Well Type Brine Disposal CBM Gas Oil Secondary Recovery Solution Mining Storage Other _____
Type of Completion Single Multiple Fluids Produced Brine Gas NGL Oil Other _____
Drilled with Cable Rotary

Drilling Media Surface hole Air Mud Fresh Water Intermediate hole Air Mud Fresh Water Brine
Production hole Air Mud Fresh Water Brine
Mud Type(s) and Additive(s)
Clay Stay - KCL - Soap

Date permit issued 6/30/15 Date drilling commenced 8-3-15 Date drilling ceased 8-9-15
Date completion activities began 9/4/15 Date completion activities ceased 9/22/15
Verbal plugging (Y/N) _____ Date permission granted _____ Granted by _____

Please note: Operator is required to submit a plugging application within 5 days of verbal permission to plug

Freshwater depth(s) ft 48' - 140' Open mine(s) (Y/N) depths N
Salt water depth(s) ft 1494' - 1721' Void(s) encountered (Y/N) depths N
Coal depth(s) ft Non Recorded Cavern(s) encountered (Y/N) depths N
Is coal being mined in area (Y/N) N

APPROVED

NAME: Derek R. Hughl
DATE: 3-16-16

Reviewed by: DMK
03/18/2016
AX WS 03/17/16

RECEIVED
Office of Oil and Gas
FEB 26 2016
WV Department of
Environmental Protection

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Coal depth(s) ft Non Recorded Cavern(s) encountered (Y/N) depths N
Is coal being mined in area (Y/N) N

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Reviewed by:
03/18/2016

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CASING STRINGS	Hole Size	Casing Size	Depth	New or Used	Grade wt/ft	Basket Depth(s)	Did cement circulate (Y/N) * Provide details below*
Conductor	15"	13"	30'	New	H-40 30#		Driven
Surface	12-3/4"	9-5/8"	503'	New	H-40 26#		Y
Coal							
Intermediate 1	8-3/4"	7"	1412'	New	J-55 17#		Y
Intermediate 2							
Intermediate 3							
Production	6-1/2"	4-1/2"	3712'	New	J-55	10.5#	No
Tubing		1-1/2"	2752'				N/A
Packer type and depth set							

Comment Details _____

CEMENT DATA	Class/Type of Cement	Number of Sacks	Slurry wt (ppg)	Yield (ft ³ /sks)	Volume (ft ³)	Cement Top (MD)	WOC (hrs)
Conductor	Driven						
Surface	Class A	175				CTS	8
Coal							
Intermediate 1	Class A	170				CTS	8
Intermediate 2							
Intermediate 3							
Production	50/50 Poz	220				1280'	N/A
Tubing							

Drillers TD (ft) 3889' Loggers TD (ft) 3876'

Deepest formation penetrated Devonian Shale Plug back to (ft) _____

Plug back procedure _____

Kick off depth (ft) _____

Check all wireline logs run caliper density deviated/directional induction
 neutron resistivity gamma ray temperature sonic

Well cored Yes No Conventional Sidewall Were cuttings collected Yes No

DESCRIBE THE CENTRALIZER PLACEMENT USED FOR EACH CASING STRING _____

4-1/2 - 6 Centralizers every 100' off bottom

*John W. Starkey, MD
Chief of Oil and Gas*

FEB 26 2016

WAS WELL COMPLETED AS SHOT HOLE Yes No DETAILS _____

WAS WELL COMPLETED OPEN HOLE? Yes No DETAILS _____

*W. Department of
Environmental Protection*

WERE TRACERS USED Yes No TYPE OF TRACER(S) USED _____

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PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
1	9/8/15	3514'	3425'	16	Warren
		2850'			Big Bore Frack Plug
2	9/15/15	2717'	2713'	10	Gordon Stray
2	9/15/15	2529'	2525'	10	Gantz

Please insert additional pages as applicable.

STIMULATION INFORMATION PER STAGE

Complete a separate record for each stimulation stage.

Stage No.	Stimulations Date	Ave Pump Rate (BPM)	Ave Treatment Pressure (PSI)	Max Breakdown Pressure (PSI)	ISIP (PSI)	Amount of Proppant (lbs)	Amount of Water (bbls)	Amount of Nitrogen/other (units)
1	9/8/15	19	2175	2022	1243	150 Sks.	1168	500 gal. acid
2	9/15/15	20	1926	1958	1492	130 Sks.	1255	500 gal. acid

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Protection

Please insert additional pages as applicable.

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<u>PRODUCING FORMATION(S)</u>	<u>DEPTHS</u>	
<u>Warren</u>	<u>3514'</u> TVD	<u>3425'</u> MD
<u>Gordon Stray</u>	<u>2717'</u>	<u>2713'</u>
<u>Gantz</u>	<u>2529'</u>	<u>2525'</u>

Please insert additional pages as applicable.

GAS TEST Build up Drawdown Open Flow OIL TEST Flow Pump

SHUT-IN PRESSURE Surface 1200 psi Bottom Hole _____ psi DURATION OF TEST 48 hrs

OPEN FLOW Gas 15 mcfpd Oil 1.5 bpd NGL _____ bpd Water .5 bpd GAS MEASURED BY Estimated Orifice Pilot

<u>LITHOLOGY/ FORMATION</u>	<u>TOP</u>	<u>BOTTOM</u>	<u>TOP</u>	<u>BOTTOM</u>	<u>DESCRIBE ROCK TYPE AND RECORD QUANTITY AND TYPE OF FLUID (FRESHWATER, BRINE, OIL, GAS, H₂S, ETC)</u>
	<u>DEPTH IN FT NAME TVD</u>	<u>DEPTH IN FT TVD</u>	<u>DEPTH IN FT MD</u>	<u>DEPTH IN FT MD</u>	
	<u>0</u>		<u>0</u>		**SEE ATTACHED GEOLOGIST REPORT

Please insert additional pages as applicable.

Drilling Contractor Nexus Drilling
Address P.O. Box 903 City Jane Lew State WV Zip 26378

Logging Company Appalachian Well Surveys
Address 10291 Ohio Avenue City Cambridge State Oh Zip 43725

Cementing Company Universal Well Services
Address P.O. Box 2437 City Buckhannon State WV Zip 26201

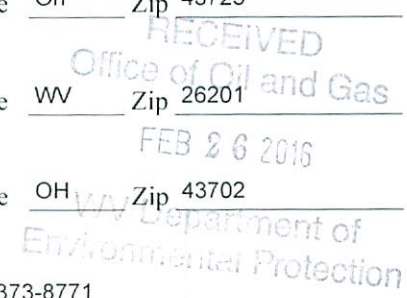
Stimulating Company Producers Service Corp.
Address 109 S. Graham Street City Zanesville State OH Zip 43702

Please insert additional pages as applicable.

Completed by Martin L. Miller Telephone 740-373-8771
Signature *Martin L. Miller* Title Sr. VP Of Operations Date Feb. 16, 2016

Submittal of Hydraulic Fracturing Chemical Disclosure Information Attach copy of FRACFOCUS Registry

03/18/2016





12956 Claylick Road
Newark, Ohio 43056-9146
Office 740-763-2758
Home 740-763-2758
Mobile 330-763-0479

National Minerals Corporation

ALLIANCE PETROLEUM CORPORATION

MENDENHALL 1V NORTH

ELLSWORTH DISTRICT

TYLER COUNTY, WEST VIRGINIA

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Office of Oil and Gas

FEB 26 2016

WV Department of
Treasury and Taxation



*Oil, Gas & Mineral
Exploration*

03/18/2016

WELL: Alliance Petroleum Corporation 1V North Mendenhall

LOCATION: Ellsworth District, Tyler County, West Virginia.

PERMIT NUMBER: 47-095-02274.

ELEVATION: 1068' Ground.

STATUS: Preparing to complete as a gas producer.

CASING: 7" @ 1404'.

TOTAL DEPTH: 3889' Driller 3876' Logger.

CONTRACTOR: Nexus Drilling Co.

TOOLS: Rotary.

COMPLETED DRILLING: 8/9/2015.

FORMATION AT TOTAL DEPTH: Devonian shale.

ELECTRICAL SURVEYS: Gamma Ray- Compensated Density- Neutron- Caliper- Temperature- Induction by Appalachian Well Surveys.

SHOWS: Fair shows of gas were noted on the gas detector in the Gordon Stray, Gantz, Weir, Big Injun and Keener. Small shows of gas were noted in the Warren and Bayard. Good hydrocarbon fluorescence and good oil cut were noted in the Gantz samples.

FORMATION TOPS:			
	1 st Salt Sand	1454'	- 386
	2 nd Salt Sand	1528'	- 460
	3 rd Salt Sand	1721'	- 653
	Big Lime	1876'	- 808
	Keener Sandstone	1956'	- 888
	Big Injun Sandstone	1978'	- 910
	Weir Sandstone	2292'	-1224
	Gantz Sandstone	2522'	-1454
	Gordon Stray Sandstone	2710'	-1642
	Gordon Sandstone	2758'	-1690
	4 th Sand	2810'	-1742
	5 th Sand	2854'	-1786
	Bayard Sandstone	2960'	-1892
	Warren Sandstone	3472'	-2404
	Speechley Sandstone	3720'	-2652

Sealability of Oil and Gas
FEB 26 2016
Department of Energy and Mineral Resources
Division of Oil and Gas

STRUCTURAL COMPARISON:

	Alliance Petroleum Mendenhall 1V North	Alliance Petroleum Kleeh 2V South
Big Lime	- 808	- 891
Gordon Sandstone	-1690	-1800
Warren Sandstone	-2404	-2466

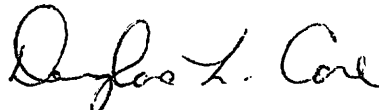
GEOLOGY

The depths in this report are from the open hole logs. The mud log depths are approximately 10' deeper than the open hole depths.

The best chances for production in this well are the Gordon Stray, Gantz and Weir Sandstones. However, before completion of these zones, it might be wise to test the Warren. Although it looks no better than the Yurigan 1V, we are several miles from that well and the depletion may not be as severe at this location. A small show of gas (background of 60 units to a maximum of 74 units) was noted in the Warren at 3605'. After testing of the Warren, I would complete the Gordon Stray, Gantz and Weir Sandstones. A fair show of gas (background of 50 units to a maximum of 130 units) was noted in the Gordon Stray at 2711'. The Gantz had a fair show of gas (background of 50 units to a maximum of 135 units), good hydrocarbon fluorescence and good oil cut. Several shows of gas were noted in the Weir, the best being at 2360' (background of 40 units to a maximum of 101 units).

Additional zones, where shows were noted, are the Bayard, Big Injun and Keener. The Bayard Sandstone (2978') had a small show of gas (background of 55 units to a maximum of 87 units). The Big Injun had a fair show of gas on the gas detector at 2040' (background of 20 units to a maximum of 153 units). This zone looks very similar to the Yurigan 1V and would probably produce a large amount of water if completed. The Keener, 1966', had a fair show of gas on the mud log (background of 10 units to a maximum of 220 units). However, water saturations are very high. I believe this zone would produce primarily water.

Respectfully submitted,



NATIONAL MINERALS CORPORATION

By: Douglas L. Core, President

August 30, 2015

03/18/2016